

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A digital signal line transmission system with reduced echo, comprising:

a communication line between a carrier and a user terminal;

a bridgetap line having a first end connected to said communication line;

an adaptor connected to said bridgetap line, the adaptor including a capacitor in parallel with one of another capacitor and a diode, said adaptor having a capacitance;

wherein said adaptor reduces the effect of echo from said bridgetap line on a rate of data transmission to said user terminal over said communication line.

2. (Original) The system of claim 1, wherein said capacitance is between approximately 0.04-2.0 mf.

3. (Original) The system of claim 2, wherein said capacitance is approximately 0.05 mf.

4. (Original) The system of claim 2, wherein said capacitance is approximately 0.068 mf.

5. (Original) The system of claim 1, wherein a length of said bridgetap line is between approximately 250-650 feet.

6. (Currently Amended) The system of claim 1, wherein said adaptor changes a resonance characteristic of said bridgetap line to that of a bridgetap line that is at least approximately 300 feet longer [[,]].

7. (Original) The system of claim 6, wherein said adaptor changes a resonance characteristic of said bridgetap line to that of a bridgetap line that is approximately 400 feet longer.

8. (Currently Amended) The system of claim 1, wherein said bridgetap splices into said communication line within approximately 1000 feet from the user terminal.

9. (Currently Amended) The system of claim 1, wherein said adaptor improves said rate of data transmission by at least approximately 300 kb/s.

10. (Currently Amended) The system of claim 1, wherein said adaptor improves said rate of data transmission by approximately 300-566 kb/s.

11. (Original) The system of claim 1, wherein said capacitance has a voltage rating of at least 150 v.

12. (Original) The system of claim 1, wherein said adaptor is water-tight.

13. (Original) The system of claim 1, wherein said adaptor is connected adjacent to a second end of said bridgetap.

14. (Currently Amended) The digital signal line transmission system with reduced echo, comprising:

a communication line between a carrier and a user terminal;

a bridgetap line having a first end spliced into said communication line, said bridgetap line having a length between approximately 250-650 feet; and

an adaptor connected adjacent to a second end of said bridgetap line, said adaptor having a capacitance of 0.04-2.0 mf, said adaptor being water-tight and having a sufficient voltage rating to withstand being struck by lightning, and said adaptor including a capacitor in parallel with one of another capacitor and a diode;

wherein said adaptor reduces the effect of echo from said bridgetap line on a rate of data transmission to said user terminal over said communication line.

15. (Original) The system of claim 14, wherein said capacitance is approximately 0.05 mf.

16. (Original) The system of claim 14, wherein said capacitance is approximately 0.068 mf.

17. (Original) The system of claim 14, wherein said adaptor changes a resonance characteristic of said bridgetap line to that of bridgetap line that is at least approximately 300 feet longer.

18. (Original) The system of claim 14, wherein said adaptor changes a resonance characteristic of said bridgetap line to that of bridgetap line that is at least approximately 400 feet longer.

19. (Original) The system of claim 14, wherein said bridgetap splices into said communication line within approximately 1000 feet from said user terminal.

20. (Original) The system of claim 14, wherein said adaptor improves said rate by at least approximately 300 kb/s.

21. (Original) The system of claim 14, wherein said adaptor improves said rate by approximately 300-566 kb/s.

22. (Currently Amended) A method for providing digital signal line service, comprising:

identifying a communication line between a carrier and a user terminal;

identifying a bridgetap line connected to said communication line; and

changing a resonance characteristic of said bridgetap line to that of a bridgetap line longer than 650 feet with an adaptor that includes a capacitor in parallel with one of another capacitor and a diode.

23. (Original) The method of claim 22, further comprising providing digital signal line service to said user terminal.

24. (Currently Amended) A method for providing digital signal line service, comprising:

identifying a communication line between a carrier and a user terminal;

identifying a bridgetap extending between approximately 250-650 feet from said communication line; and

connecting a portion of said bridgetap adjacent an end thereof with an adaptor having capacitance between approximately 0.04-2.0 mf where the adaptor includes a capacitor in parallel with one of another capacitor and a diode.

25. (Original) The method of claim 24, further comprising providing digital signal line service to said user terminal.